DS PHARMA BIOMEDICAL

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User Manual

OriCell™ Cell Culture Cryopreservation Medium

Cat. No. CRYO-10001

PRODUCT DESCRIPTION:

OriCell™ Cell Culture Cryopreservation Medium is a serum-containing and ready-to-use freezing medium with optimized formulations for stem cells and primary cells.

This product is intended for laboratory research use only. It is not intended for diagnostic, therapeutic, clinical, household, or any other applications.

FEATURES:

- Stable and ready-to-use.
- Promotes high cell viability (>90%) for most mammalian cells post-thaw.
- Maintain stem cell pluripotency.
- Does not affect the proliferation and differentiation properties of cells.
- The medium consists of 10% DMSO and cell-qualified fetal bovine serum.

PACKAGING:

Available in two sizes: 50 mL/ Bottle

20 mL/ Bottle

INSTRUCTIONS:

Cryopreservation

1. Collect cells that are in the logarithmic growth phase. Perform a cell count to determine the viable cell density.
2. Centrifuge the cells for 3-5 minutes at 250 x *g* and 20°C. Remove and discard the supernatant using a pipette.
3. Resuspend the cell pellet in the OriCell™ Cryopreservation Medium at a cell density of 10^5-10^6 cells/mL.
4. Dispense aliquots of the cell suspension into cryogenic storage vials that are properly labeled.
5. Place the vials in a programmed, controlled-rate freezing apparatus and make sure the cooling rate is 1°C/min.
6. After 24 hours, transfer the frozen vials to liquid nitrogen for long-term preservation.

Thawing

1. Remove the cryovial of frozen cells from storage and quickly thaw the vial in a 37°C water bath.
2. Gently dilute and resuspend the cells in 8-10mL of cell culture medium.
3. Centrifuge the cells for 3-5 minutes at 250 x *g* and 20°C.
4. Carefully aspirate off as much of the supernatant as possible and add 2-3mL of cell culture medium to resuspend the cells.
5. Transfer the cells into an appropriate growth vessel with the appropriate amount of growth medium and incubate inside a 37°C incubator with a 5% CO_2 humidified atmosphere.

STABILITY AND STORAGE:

Store at 2-8°C. This product is stable at 2-8°C for up to 1 year and should be discarded beyond the labeled expiration date. For optimal performance, repeated warming and freeze-thawing should be avoided.

QUALITY CONTROL:

OriCell™ Cryopreservation Medium has been tested for performance on mesenchymal stem cells and Vero cells. The standard evaluation includes:

- Sterility test (bacteria, fungi, and mycoplasma)
- pH test
- Osmolality
- Endotoxin

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